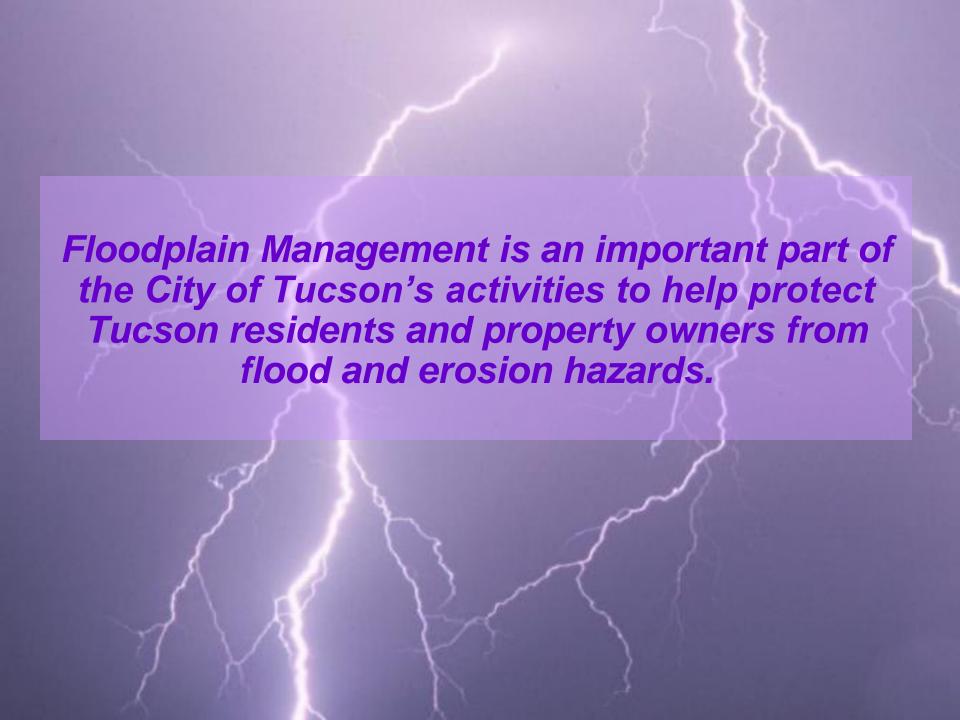
Open House for Tucson Floodplain Management Plan and City of Tucson Floodplain Ordinance Update

Floods can do even worse than damage property; they can also threaten lives if safety precautions are not followed. "Floods occur somewhere in the United States or its territories nearly every day of the year, killing nearly 100 people on average annually and causing damage in the billions of dollars," said Jack Hayes, Director of the National Weather Service. "Awareness, preparedness and action are the key ingredients to protecting lives and property when floods threaten." *

"It's important that families protect themselves and their homes against a potential flood," said FEMA Administrator Craig Fugate. "These steps include developing a family communications plan, putting an emergency kit together, keeping important papers and valuables in a safe place, and investing in flood insurance. Most flood insurance policies take 30 days to become effective, so the time to take action is now." *

FEMA/NOAA Flood Safety Awareness Week is March 14-18, 2011





Tonight's Open House covers two topics:

- ✓ Tucson Floodplain Management Plan
- City of Tucson Floodplain Ordinance update



Outreach

Public involvement for the Floodplain Management Plan and update to the Tucson Floodplain Ordinance have included:

- Newspaper advertisement February 2016
- Counter handouts
- Bulletin board flyers
- Floodplain Management Plan Committee Meetings Open to Public
- Online advertising FEMA, TDOT, PDSD websites
- Open House

Public comments are welcome on either of these draft documents Please fill out a comment card and place in box

For any additional input or comments, see the following websites for links to the

Draft City of Tucson Floodplain Ordinance

and the

Draft Tucson Floodplain Management Plan

https://www.tucsonaz.gov/pdsd/floodplain-information

http://www.r9map.org/Pages/ProjectDetailsPage.aspx?choLoco=69&choProj=492

Comments will be accepted over the next few days and may be sent to:

SLHoughland@mbakerintl.com

Peter.McLaughlin@tucsonaz.gov

Elizabeth.Leibold@tucsonaz.gov

Why was the City of Tucson Floodplain Ordinance changed?

In order to participate in the National Flood Insurance Program Community Rating System, the City of Tucson periodically updates the ordinance to reflect current procedures as well as State and Federal regulations.



Besides changes to reflect the State Model Floodplain Ordinance, the City of Tucson changed a few other items ...

Floodplain Ordinance Update - Summary of Changes:

- Critical Facilities definition added
- Cumulative Substantial Improvement / Damage calculation changed
- Floodplain Use Permit **fees** section were removed
- Certification of <u>floodproofing</u> clarified
- Ordinance updated to reflect State of Arizona Model Ordinance
- Minor punctuation, grammatical, and <u>legal corrections</u>

Critical Facilities

Definition includes:

- Airport facilities
- Day care facilities
- Elderly care facilities
- Emergency incident command centers
- Fire stations
- Hospitals
- Nursing Homes
- Police departments
- Schools
- Storage facilities that have hazardous materials
- Utility facilities
- and other critical facilities as determined by Department Directors

New Regulation:

- For new Critical Facilities or additions, the freeboard will be more than the standard one foot freeboard.
- Freeboard will be at or above the 500-year flood depth, or
- The freeboard will be 2-feet.
- ☐ The Executive Order 11988 was recently updated and supports these freeboard regulations.



Cumulative Substantial Damage Repairs or Improvements



- ➤ Improving a non-conforming structure in the floodplain is restricted.

 Insurance companies don't want to pay over and over again for claims for structures in the floodprone areas.
- ➤ If the proposed improvements exceed 50% of the value of the structure, then it is considered substantial improvement.
- ➤ If substantial improvement is proposed, the building would need to be in compliance (conforming) with floodplain regulations (ie high enough out of the floodprone area).
- ➤ For non-conforming structures, only 50% of the value of the structure is allowed to be improved.
- ➤ Permits for Substantial Improvement or Substantial Damage to a structure is currently computed using the 50% rule to include all costs of improvement over the life of the structure.
- ➤ With the revised section of the Floodplain Ordinance, the computation will only include the last 10-years of the improvements to the structure.
- ➤ For instance, if a permit was processed today, the computation would include all permitted improvement costs since March 7, 2006.



➤ Floodplain Use Permit <u>fees</u> section in the updated ordinance were removed and will be placed with other fee schedules in the Administrative Manual and/or Technical Standards.

Certification documents for <u>floodproofing</u> certain structures has been clarified in the updated ordinance. Surveyors shall certify elevation certificates and civil engineers shall certify structures that have been floodproofed by other means other than elevating.



Besides City Attorney guided minor punctuation, grammatical, and legal corrections, the City of Tucson Floodplain Ordinance was updated to reflect the State of Arizona Model Ordinance.



In order to participate in the National Flood Insurance Program Community Rating System, the City of Tucson periodically updates the ordinance to reflect current procedures as well as State and Federal regulations.



Public comments are welcome on either of these draft documents.

Please fill out a comment card and place in box

For any additional input or comments, see the following websites for links to the Draft City of Tucson Floodplain Ordinance

and the

Draft Tucson Floodplain Management Plan

https://www.tucsonaz.gov/pdsd/floodplain-information

http://www.r9map.org/Pages/ProjectDetailsPage.aspx?choLoco=69&choProj=492

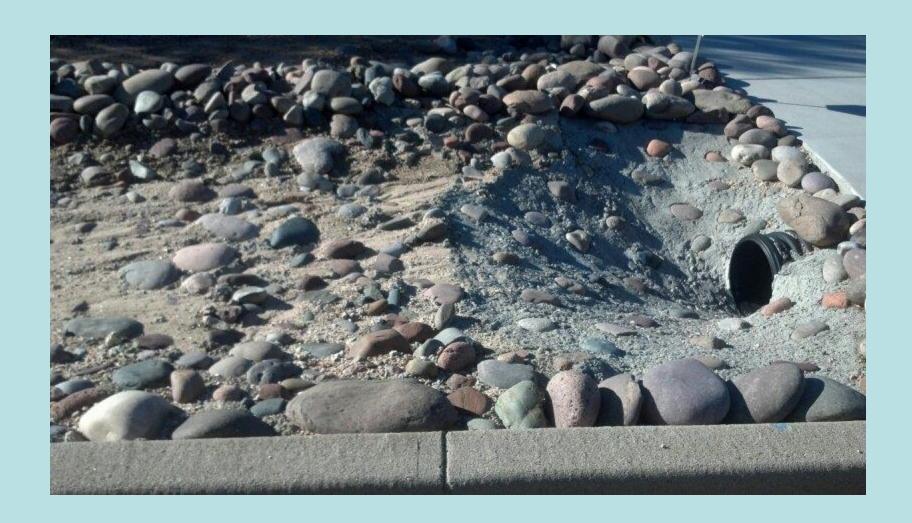
Comments will be accepted over the next few days and may be sent to:

SLHoughland@mbakerintl.com

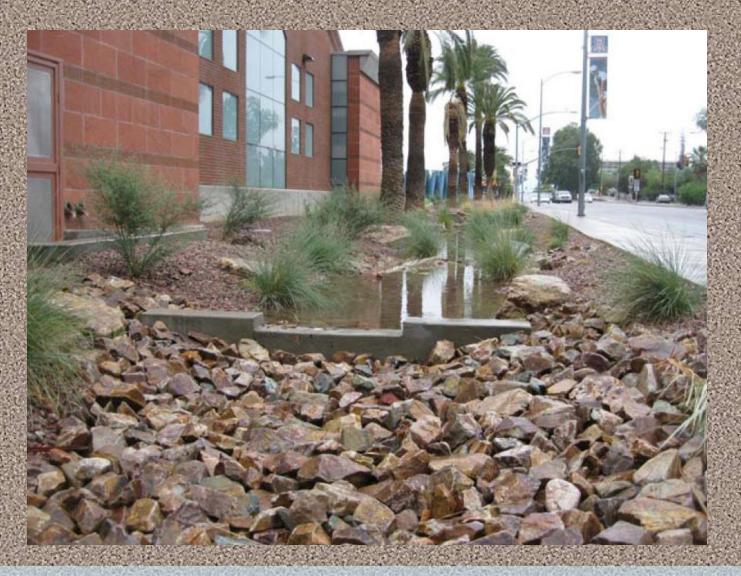
Peter.McLaughlin@tucsonaz.gov

Elizabeth.Leibold@tucsonaz.gov





Floodplain Management Plan



This Plan is the update to the Tucson Stormwater Management Study



FMP Committee Members included:

- Private Local Planning, Geotechnical, & Engineering Consultants: The Planning Center, Logan Simpson, Watershed Management Group, Terracon, Stantec, Presidio Engineering, JE Fuller, Arroyo Engineering, EEC
- ✓ SAHBA
- ✓ Ward Offices
- City Engineer, City of Tucson Department of Transportation
- Engineering / Floodplain Administrator, City of Tucson Planning and Development Services Department
- ✓ Tucson Planning and Development Services Department Engineering Division
- ✓ Tucson Planning and Development Services Department Planning
- Tucson Planning and Development Services Department Deputy Director
- Engineering Construction Inspector, Tucson Planning and Development Services

 Department
- Code Enforcement, City of Tucson Planning and Development Services Department
- Adopt-a-Park/Wash Coordinator, Tucson Clean & Beautiful
- Development & Communications Director, Tucson Clean & Beautiful
- City of Tucson, Environmental Services Department
- ✓ Tucson Office of Integrated Planning
- √ Tucson Police Department
- ✓ GIS Technician, Department of Transportation
- ✓ Chief Hydrologist, Pima County Regional Flood Control District
- ✓ City of Tucson, Environmental Services Department
- ✓ Real Estate representation
- ✓ Sr. Director of Development Services, Tucson Airport Authority
- ✓ Risk Map Coordinator, Arizona Department of Water Resources
- ✓ BakerAECOM

Tucson's Floodplain Management Plan

Key points:

- The FMP is a community-wide plan and updates the Tucson Stormwater Management Plan.
- The Floodplain Management Plan was mostly funded by FEMA, with assistance by an engineering consultant, Michael Baker International.
- A Charter was signed between the City f Tucson and FEMA to create the plan.
- There were 5 FMP Committee meetings over the last 2015 year.

Pick up a copy of the City of Tucson Tucson Risk MAP Project Fact Sheet

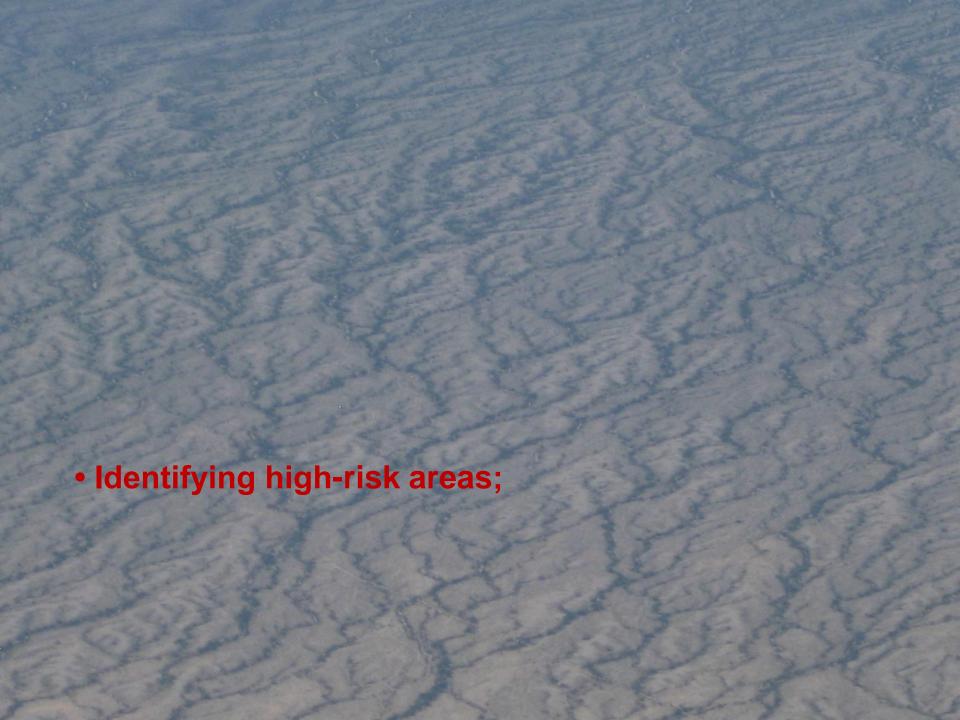
Goals and Priority Action items were determined in the FMP Committee Meetings.



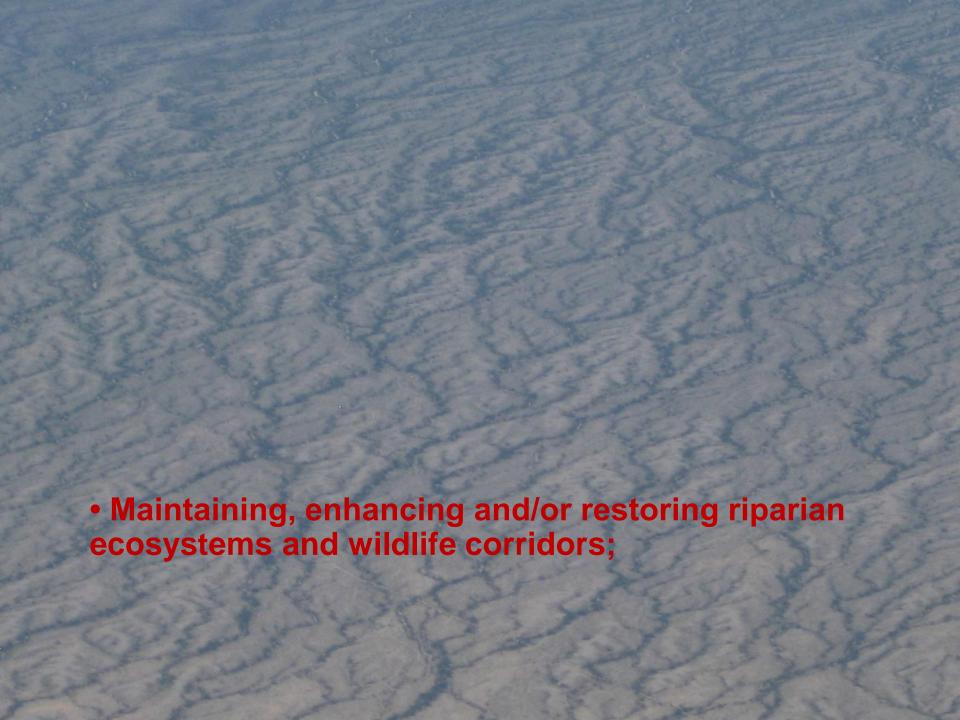
Source: City of Tucson Water Harvesting Seminar 2010

FMP Goal Statement

Reduce flood and erosion hazards, damage, and associated costs by: ...







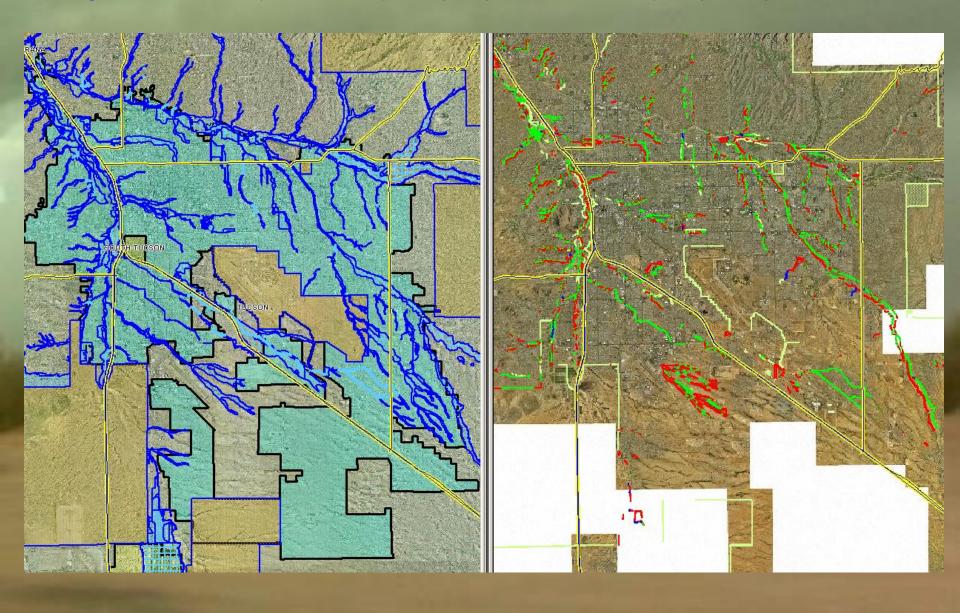


• Expanding incentives for private property owners and developers to implement sustainable flood and erosion hazard mitigation strategies.



Spin-off meetings have begun discussing this topic and looking at procedures to best address improving the City of Tucson's drainage infrastructure maintenance programs.

Besides the Floodplain Management Plan Report, special flood risk hazard maps and other documents will be generated and completed for adoption by Mayor and Council hopefully in May 2016.







For any additional input or comments, see the following websites for links to the Draft City of Tucson Floodplain Ordinance

and the

Draft Tucson Floodplain Management Plan

https://www.tucsonaz.gov/pdsd/floodplain-information

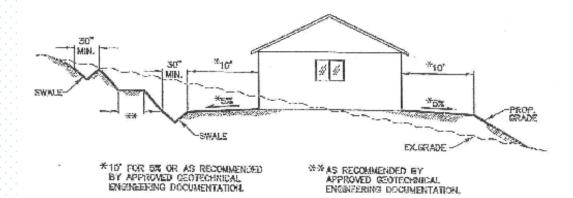
http://www.r9map.org/Pages/ProjectDetailsPage.aspx?choLoco=69&choProj=492

Comments will be accepted over the next few days and may be sent to:

SLHoughland@mbakerintl.com

Peter.McLaughlin@tucsonaz.gov

Elizabeth.Leibold@tucsonaz.gov



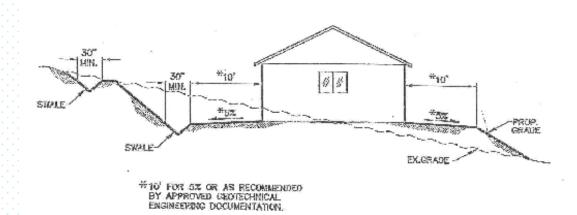


FIGURE 5.2-C DRAINAGE SETBACK & SWALE